

CLAIMS

1. A base station, wherein an external container is divided into a first flat-type external container that is fixed to an installation place and a second flat-type external container that holds circuit boards and that is detachably attached to the first external container, and the second external container is disposed on the outside of the first external container with heat dissipation space provided therebetween.
2. The base station according to claim 1, wherein a radiating member is provided on each of opposite faces of the first external container and the second external container.
3. The base station according to claim 2, wherein the first external container holds a power supply.
4. The base station according to claim 1, wherein the first external container and the second external container each have the airtightness, while communicating with each other in internal space thereof.
5. The base station according to claim 1, wherein a fan unit is provided on an upper face of the first external container, the fan unit absorbing air from between the first external container and the second external container to discharge.
6. The base station according to claim 1, further comprising:
 - a motherboard which has a plurality of motherboard

connectors connected to respective printed-circuit board connectors provided in a plurality of printed-circuit boards, and which is configured so that the direction of attaching/detaching the printed-circuit board connectors to/from the motherboard connectors is the same as the direction of attaching the printed-circuit boards to the external container.

7. The base station according to claim 6, further comprising:

10 a cooling fan to control the temperature inside the external container to which the motherboard is attached, wherein printed-circuit boards with small areas are provided in a central portion of the external container among the plurality of printed-circuit boards attached to the motherboard, and a ventilation path of the cooling fan is formed between the printed-circuit boards with small areas and the external container.

8. The base station according to claim 6, further comprising:

20 a radiating member that cools at least one of the plurality of printed-circuit boards in a state where a plurality of the printed-circuit board connectors are connected to the plurality of motherboard connectors.

9. The base station according to claim 8, wherein the radiating member has a heat pipe.

10. A base station comprising:

a first external container that is fixed to an

installation place; and

a second external container that holds a plurality of stacked circuit boards and that is detachably attached to the first external container,

5 wherein clearance for heat dissipation communicating with outside air is provided between the first external container and the second external container, and the first external container and the second external container are provided opposite to each other
10 in the direction in which the circuit boards are laminated.

11. The base station according to claim 10, wherein a radiating member is provided on each of opposite faces of the first external container and the second external container.

15 12. The base station according to claim 11, wherein the first external container holds a power supply.

13. The base station according to claim 10, wherein the first external container and the second external container each have the airtightness, while communicating
20 with each other in internal space thereof.

14. The base station according to claim 10, wherein a fan unit is provided on an upper face of the first external container, the fan unit absorbing air from between the first external container and the second external
25 container to discharge.

15. The base station according to claim 10, further comprising:

a motherboard in which is provided a plurality of motherboard connectors connected to respective printed-circuit board connectors provided in a plurality of printed-circuit boards, and which is configured so
5 that the direction of attaching/detaching the printed-circuit board connectors to/from the motherboard connectors is the same as the direction of attaching the printed-circuit boards to the external container.

16. The base station according to claim 15, further
10 comprising:

a cooling fan to control the temperature inside the external container to which the motherboard is attached, wherein printed-circuit boards with small areas are provided in a central portion of the external container
15 among the plurality of printed-circuit boards attached to the motherboard, and a ventilation path of the cooling fan is formed between the printed-circuit boards with small areas and the external container.

17. The base station according to claim 15, further
20 comprising:

a radiating member that cools at least one of the plurality of printed-circuit boards in a state where a plurality of the printed-circuit board connectors are connected to the plurality of mother board connectors.
25 18. The base station according to claim 17, wherein the radiating member has a heat pipe.

19. A motherboard in which is provided a plurality of

motherboard connectors connected to respective printed-circuit board connectors provided in a plurality of printed-circuit boards attached to an external container, and which is configured in such a manner that
5 the direction of attaching/detaching the printed-circuit board connectors to/from the motherboard connectors is the same as the direction of attaching the printed-circuit boards to the external container.

20. The motherboard according to claim 19, wherein the
10 plurality of printed-circuit boards is a CNT board constituting a control device in modulation and demodulation equipment to modulate and demodulate transmission and reception signals, a TRX board constituting a transmission and reception card, a BB0
15 board for standard equipment constituting a baseband signal processor, and a BB1 board for expansion constituting a baseband signal processor.

21. The motherboard according to claim 21, wherein the
external container is comprised of an external container
20 case and an external container cover attached to the external container case to be openable and closable, and the BB1 board for expansion is provided in a portion exposed in a state where the external container cover is opened.